



Product Overview

Conveyor & Elevator Belts

GRT Rubber offers the **most extensive line of sheet rubber and conveyor belt products in the industry**. Our top quality products are made with pride at our state-of-the-art facility in Paragould, Arkansas. We manufacture our modern belting products efficiently and cost effectively, to provide you with years of high performance bulk haulage at the lowest cost-per-ton.



Why GRT?

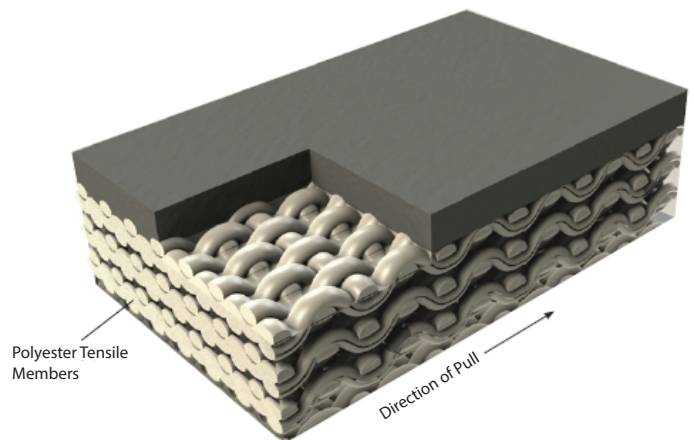
- The success of GRT Rubber is founded on experience, innovation, cutting-edge technology and dedication to quality.
- Our technical lab is one of the industry's most advanced.
- We rigorously test the physical, chemical and component properties of raw materials and finished products.
- Our computer-controlled manufacturing equipment ensures the tightest possible gauge tolerances and highest quality control.
- Technology combined with extensive training and experience means our **quality is guaranteed**.

Conveyor Belt Components

Conveyor belts have two basic components: the carcass, or strength member, and the rubber which protects the carcass.

Most belt carcasses are produced from fabrics that use polyester or nylon fibers, or a combination of the two. These fabrics are completely resistant to the deteriorating effects of moisture, and are resistant to most chemicals. The inherent strength of the fabrics give exceptional resistance to cutting and snagging by abrasive or gritty materials, and retain their strength indefinitely.

The rubber used in conveyor belting, whether natural or synthetic, is compounded to protect the carcass from the material being conveyed, and from any external conditions which could shorten the belt's useful life. The conveyor belt design seeks to ensure comparable service life for both the cover and the carcass, so that they wear out at the same rate, regardless of conditions.



(Above) Our belts are constructed of polyester or nylon fabrics. Tough polyester filament yarn gives GRT belts high tensile strength. The longitudinal warp yarns carry the tension, and the transverse fill yarns hold the wrap in place and retain the mechanical fasteners. The crimp in the fabric acts as a shock absorber, permitting the fabric to deflect and adjust itself during impact shock.

Benefits & Overview

- Controlled stretch provided by polyester's low stretch and shrink properties reduce take-up and time needed for drive adjustments.
- Resistance to mildew and rot means that wet applications will not affect the belt.
- Low moisture absorption ensures better dimensional stability in wet or dry applications.
- Excellent resistance to chemicals and acids allows a wide range of uses in a variety of environments.
- High adhesion between plies and outstanding flexibility allow the use of smaller pulleys, yielding longer service life.
- Excellent resistance to stretch and breakdown due to heat means consistent service in high temperature applications.
- Superior fastener holding ability.



Product Overview

FLEXKING®

Premium Conveyor Belts

- High quality conveyor belt for a wide variety of service applications.
- Designed for use in hard rock mining, log handling, aggregate, minerals, and other critical applications.
- Manufactured in widths to 72" (1800 mm).
- Tension ratings from 160 PIW to 1500 PIW.
- Available as a made-to-order product using any cover compound.

TECHFLEX®

Problem Solver Conveyor Belts

- Straight warp single or dual unit construction provides flexibility and superior rip and impact resistance.
- Tension ratings are 220, 330 and 440 PIW single unit, and 600, 800, and 1,000 PIW dual unit.
- Ideal for applications such as log handling, riprap, ballast, hard rock, heavy ores and other difficult conditions.
- Available as a made-to-order product using the cover compounds.

DURAKING®

Rugged Dependable Conveyor Belts

- General purpose, high performance conveyor belt.
- Available in two-, three-, and four-ply construction with covers of RMA Grade II rubber.
- Designed primarily to convey light aggregate, coal, wood chips, and other materials that do not require high impact resistance.
- Available with cover compounds Grade 2 or MOR.

HEATKING®

Hot Service Belts

- All synthetic fabrics specially woven from polyester.
- Ideal for applications with constant material temperatures over 150°F (66°C).
- Widths available to 60" (1500 mm).
- Various FlexKing carcass types available.

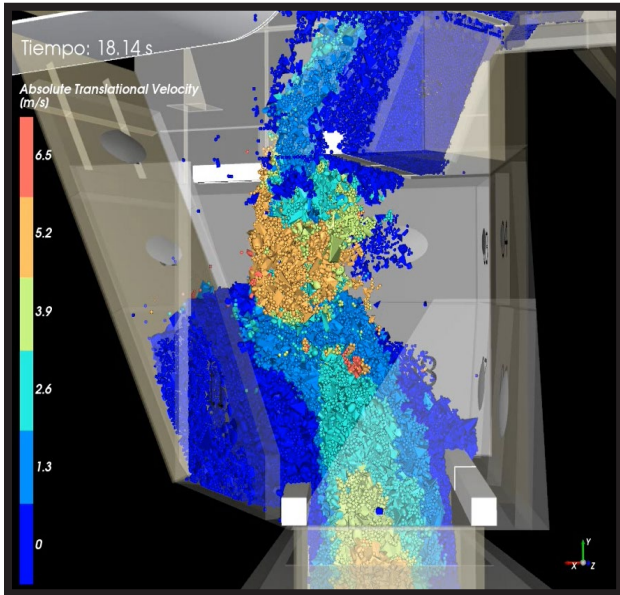
Transfer Systems

Solid | Wet & Mill

Product

Overview

Inside any processing circuit, a Transfer Point is a system where mineral flows from one point to another. It is common to see wear, impact, and general abrasion of the structural housing. Valley Rubber focuses on the supply of products used to line these structures.



DEM Simulation Software

Frequent Issues

- Unsafe access points
- Large distance falls to the chute walls or floor of transfer zone
- Severe dust and spillage issues
- High wear and belt damage
- Belt sag
- Noise
- Excessive maintenance

Field Support - What We Offer

- Site visits to gather application information, laser scanning of the existing equipment, discussion of problem/goals with the client, photos, videos, other measurements
- Site supervision of product installation



Valley Rubber's System

- Eliminate plugging
- Significantly reduce maintenance, dust, and spillage
- Increase safety
- Reduce fall heights and impact energy
- Improve Transfer Points efficiency and flow patterns
- Adjustable beds to accommodate feed changes
- All aspects customer reviewed and approved prior to supply



Solids Transfer Systems - Crushing Circuits, Conveyed Products



Wet & Mill Transfer Systems - Launderers, Mill Feed

Haul Truck Liners

Our Rubber Truck Liners absorb energy, protect against abrasive material and drastically decrease costly box maintenance. When properly designed for the application, **the Valley Rubber Liner System is superior to conventional steel liners.**

Why Valley Rubber?

- 3D laser scanning of your bed
- Rapid installation compared to steel
- Superior life-cycle/wear-life on our Rubber Liner versus high alloy/carbide overlay steel liner
- Significantly increased availability of equipment
- Reduced box maintenance
- Decreased shock load to the bed and truck frame
- Ability to line heated and non-heated beds
- Improved driver comfort

Performance Guarantee

Valley Rubber manufactures Haul Truck Bed Liners for all size trucks bodies; historically we have lined 25-ton up to 400-ton trucks. We guarantee that every Rubber Truck Bed Liner will be cost effective compared to any steel liners available on the market today. Cost effectiveness is measured by:

- Initial cost of the liner materials
- Installation cost
- Box and liner maintenance cost
- Liner removal/replacement cost
- Payload capability as a factor of total cost-per-ton transported



Haul Truck below in service for 5+ years with zero box maintenance.



5 Years...Zero Box Maintenance!

Valley Rubber installed 6" thick Rubber Liners in Komatsu 830 and 930 Haul Trucks with the intention of extending the useful life of the truck box to five years without performing maintenance or repairs, except the monthly routine inspections and the rotation of the central pieces of the lining every three years. After 5 years, the Rubber Liners are still in service. The first trucks lined have hauled as many as 10,898,400 tons, all with zero box maintenance.